

CLAIMS

1. An inorganic layered compound dispersion,
wherein an inorganic layered compound (b) is dispersed
5 using a peroxide (a) in a dispersion medium.

2. The inorganic layered compound dispersion
according to Claim 1,

10 wherein a mixture containing the peroxide (a) and
inorganic layered compound (b) in a mixing ratio by mass of
(a)/(b) = 2/1 to 1/1000 is dispersion treated in a high speed
stirring apparatus and/or a high pressure dispersing apparatus.

15 3. The inorganic layered compound dispersion
according to Claim 1 or 2,
wherein hydrogen peroxide is used as the peroxide (a).

4. A process for producing an inorganic layered
compound dispersion,

20 which comprises admixing a peroxide (a) and an inorganic
layered compound (b) in a dispersion medium in a mixing ratio
by mass of (a)/(b) = 2/1 to 1/1000 and further treating the
resulting mixture in a high speed stirring apparatus and/or a
high pressure dispersing apparatus to distribute the cleaved
25 inorganic layered compound (b) in the dispersion medium.

30 5. A gas barrier coating composition,
which comprises the inorganic layered compound
dispersion (c) according to any one of Claims 1 to 3 and a gas
barrier resin (d).

6. The gas barrier coating composition according to
Claim 5,

35 wherein the total content of the inorganic layered
compound (c) and gas barrier resin (d) in the gas barrier coating

composition is 1 to 30% by mass and the mass ratio (c)/(d) is 30/70 to 70/30.

7. The gas barrier coating composition according to
5 Claim 5 or 6,

which contains, as the gas barrier resin (d), at least one resin selected from among polyvinyl alcohol-based resins and ethylene-vinyl alcohol-based resins.

10 8. A gas barrier composite plastic film or sheet, which is obtainable by applying the gas barrier coating composition according to any one of Claims 5 to 7 at least one of the surfaces of a film or sheet of a plastic selected from the group consisting of polyolefins, polyesters, polyamides and 15 polystyrene in a coating weight to give a dry film thickness of 0.1 to 100 μm .

9. A gas barrier packaging container, which is obtainable by molding the gas barrier composite 20 plastic film according to Claim 8.

10. A gas barrier packaging container, which is obtainable by molding the gas barrier composite plastic sheet according to Claim 8.

25 11. A gas barrier packaging container, which is obtainable by applying the gas barrier coating composition according to any one of Claims 5 to 7 to a plastic container molded in the form of a tube, tray, cup, box or bottle 30 in a coating weight to give a dry film thickness of 0.1 to 100 μm .

12. A gas barrier packaging container, which is formed of a composite layer consisting of paper 35 and the gas barrier composite plastic film or sheet according

to Claim 8.

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